[ABS]

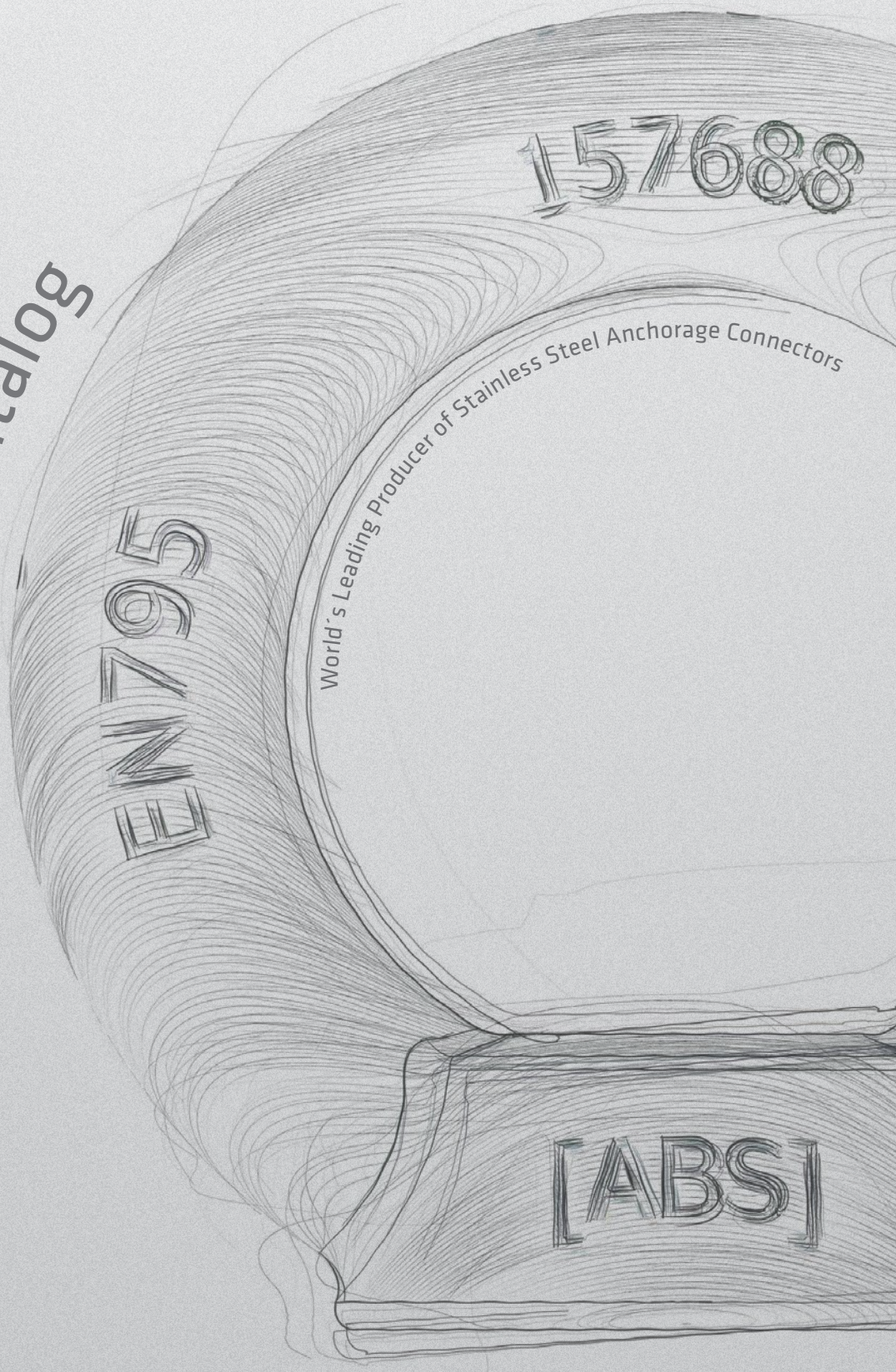
The systematic approach

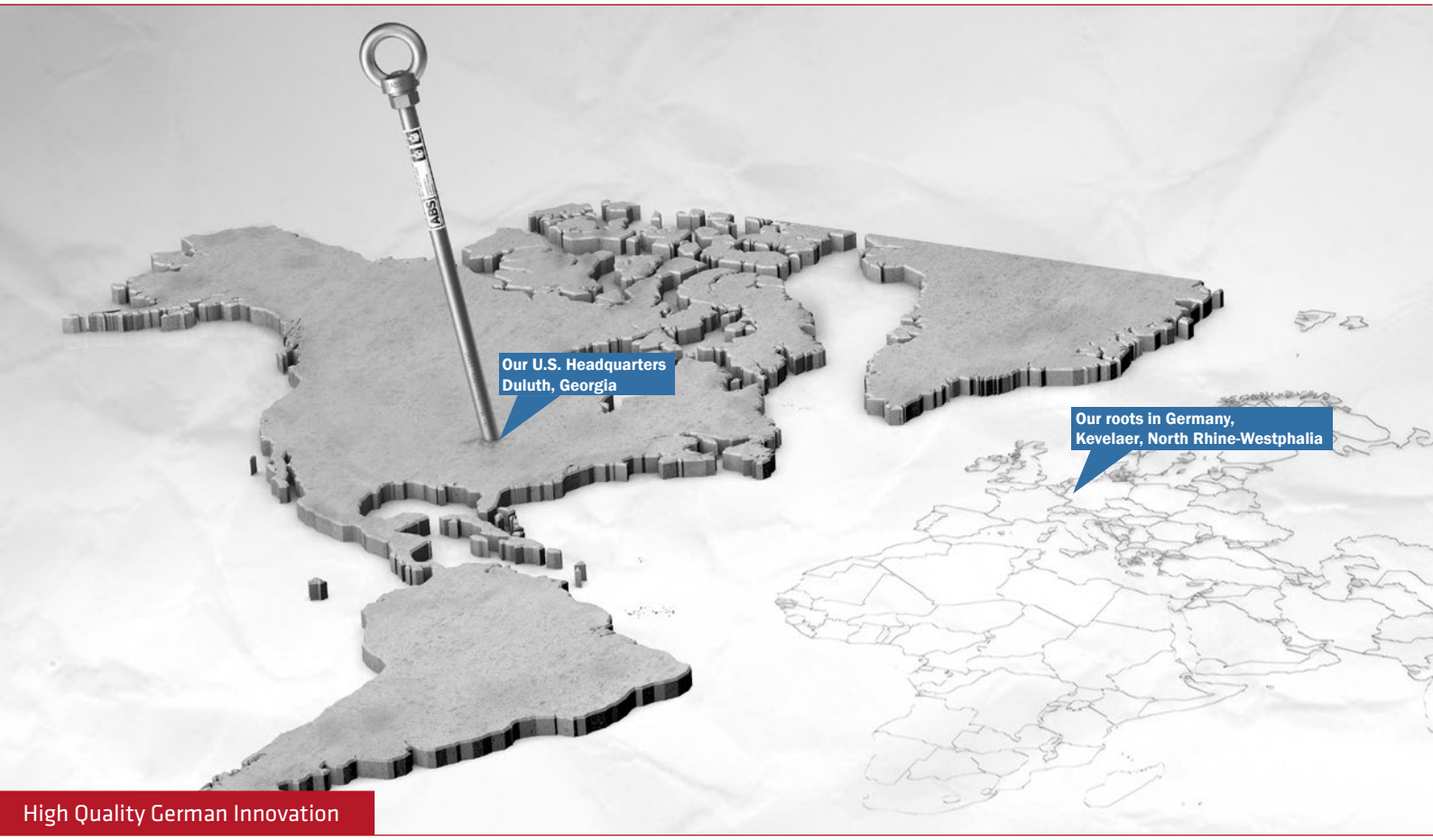
Catalog

EN 1565

1.5768.8

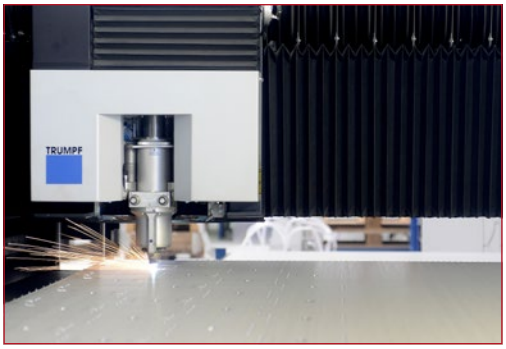
World´s Leading Producer of Stainless Steel Anchorage Connectors



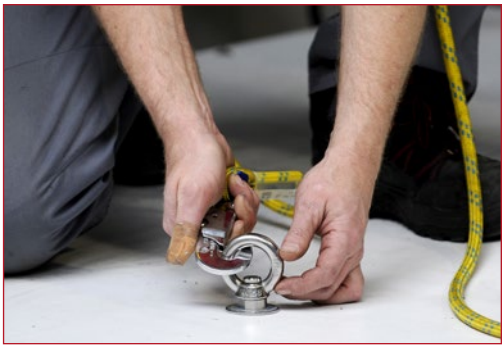


High Quality German Innovation

Exceptional quality



High performance stainless steel



Direct implementation

ON THE SAFE SIDE...

Douglas Mercier
General Manager Americas

... especially when it comes to safety at work. Founded in Kevelaer Germany in 2004 by Ludwig and Ingrid Beckers, ABS Safety has grown to be an innovative market leader in Europe specializing in fall arrest and prevention systems designed to protect workers at height. In 2012, ABS Safety incorporated its U.S. business in Duluth Georgia with the goal to introduce our innovative product offering into the American market. With over 50 years of combined industry expertise in fall protection, we bring an innovative offering and solutions to the market.
Our portfolio is highly specialized, providing a solution for any situation you can think of. Our products have been tested for the American market in accordance with ANSI Z359, OSHA and Canadian OH+S requirements. In addition to our high quality product offering, we are also renowned for our service which covers all aspects of the fall arrest arena. We provide you with all the help and support you need - right from the initial planning phase through to the delivery stage - and far beyond.

We look forward to providing the ultimate customer experience with high quality products.

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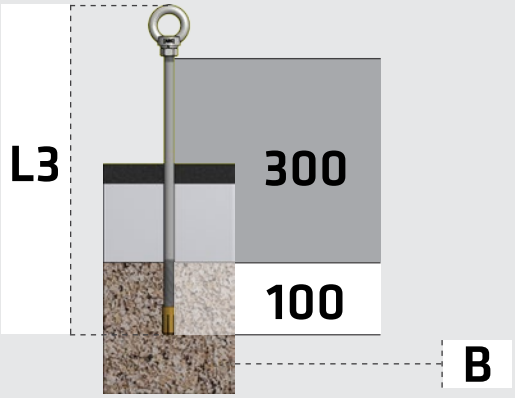
Understanding ABS-Lock III, X, X-SR, I+II product numbers



L3	-	B	-	300	-	100
Product group e.g. L3 = ABS-Lock III		Installation type/ surface, e.g. z. B. B = Concrete		Protrusion (mm) = length of anchorage point above the surface		Thread length (mm) = submerged

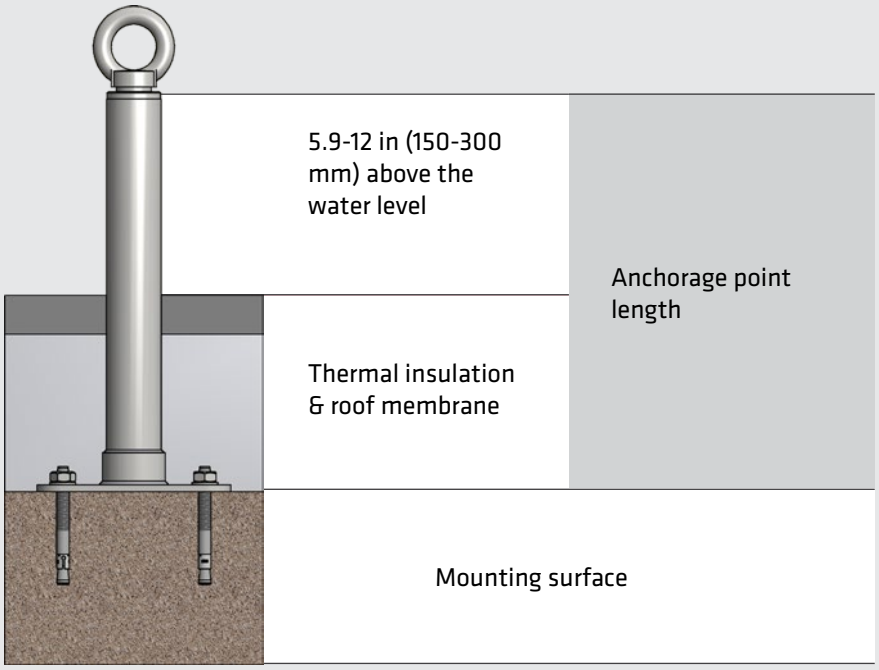
Should you require a special custom-size component not included in our product list, please ask us. Please also provide appropriate details regarding the installation environment and/ or other relevant values.

Expenation: How to choose the correct anchorage point length:

The following general rule applies:

Thermal insulation depth (incl. roof membrane) + 5.9 in (150 mm) rounded up to the nearest 3.9 in (100 mm).

This ensures that the anchorage point protrudes at least 5.9 in (150 mm) above the water level - but no more than ~ 11.8 in (300 mm).



Example: ABS-Lock X-SR installed in concrete

Therm. insulation (incl. membrane):	+5.9 in (150 mm)	Results - rounded up:
3.2 in (80 mm)	9.1 in (230 mm)	**12 in (300 mm)**
6.75 in (170 mm)	12.6 in (320 mm)	**15.75 in (400 mm)**
9.15 in (230 mm)	15 in (380 mm)	**15.75 in (400 mm)**
11.1 in (280 mm)	17 in (430 mm)	**19.7 in (500 mm)**

PRODUCT	DESCRIPTION	ORDER NO.	LENGTH

ABS-Lock® III — Single Point Anchors

ABS-Lock® III-B (wall and overhead installation)

Stainless steel anchorage connector for cementing into concrete, tested acc. to ANSI and OSHA as a single point anchor. Also suitable as a lifeline system post. Diameter: $^{5}/_{8}$ in.

- For cementing into conrete, grades 3,000 psi or better
- For wall, facade and overhead applications

Note: Prior to installing the device in a wall, pls. contact ABS.

L3-B-0-100	**0 in**
L3-B-50-100	**1.96 in**

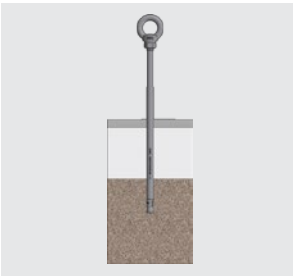
ABS-Lock® III-B (flat roofs)

Stainless steel anchorage connector for doweling into conrete, tested acc. to ANSI and OSHA as a single point anchor, also suitable in a lifeline system.

- For doweling into conrete, 3,000 psi or better
- For flat roof implementation Ø $^{5}/_{8}$ in.
- Incl. installation materials

Note - lifeline systems: Please use our **LX-SR-B-XXX** (see page 8) as an end or corner post in a lifeline system.

L3-B-100-100	**3.93 in**
L3-B-200-100	**7.87 in**
L3-B-300-100	**12 in**
L3-B-400-100	**15.75 in**
L3-B-500-100	**19.68 in**
L3-B-600-100	**23.62 in**

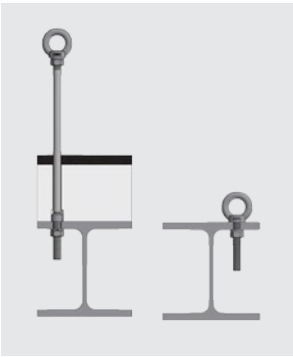


ABS-Lock® III-BE (flat roofs)

Stainless steel anchorage connector for hammering into concrete , tested acc. to ANSI and OSHA as a single point anchor, suitable as a interim post in a lifeline system. Note: Please use our **LX-SR-B-XXX** (see page 8) as an end or corner post in a lifeline system.

- For flat concrete roof surfaces, 3,000 psi or better, Post Ø $^{5}/_{8}$ in.

L3-BE-300	**12 in**
L3-BE-400	**15.75 in**
L3-BE-500	**19.68 in**
L3-BE-600	**23.62 in**
L3-BE-XXX	**custom length**



ABS-Lock® III-ST

Stainless steel anchorage connector for bolting into steel, tested acc. to ANSI and OSHA as a single point anchor, also suitable for lifeline systems.

- For steel structures/ strut and bracket connections
- With or without protrusion, for roofs, walls, facades and overhead usage
- Incl. installation materials

L3-ST-0-25	**0 in**
L3-ST-0-30	**0 in**
L3-ST-0-45	**0 in**
L3-ST-0-100	**0 in**
L3-ST-0-250	**0 in**
L3-ST-100-100	**3.93 in**
L3-ST-300-100	**12 in**
L3-ST-400-100	**15.75 in**
L3-ST-500-100	**19.68 in**
L3-ST-600-100	**23.62 in**

Support tube for ABS-Lock® III

Stainless steel reinforced tube incl. force absorber, for most protruding ABS Lock® III models. Must be used to support the ends and corners in a lifeline system.

- For roofs, walls, facades overhead systems.
- Support Ø 1 $^{11}/_{16}$ in., XXX = protrusion
- Also suitable for installation in concrete in certain cases (facade systems)

L3-STÜTZR-400	**15.75 in**
L3-STÜTZR-XXX	**custom length**

PRODUCT	DESCRIPTION	ORDER NO.

ABS-Lock® III-R with 360° rotating eyelet

ABS-Lock® III-R for steel (bolted)

316 stainless steel anchorage connector, anchorage eyelet rotates a full 360°, designed for screwing into steel using pre-installed threads, tested according to ANSI Z359.1 & A10.32 and OSHA as a single point anchor.

Available in two different sizes:

- Thread lengths: M16 x 24 mm, M20 x 30 mm
- Incl. specification plate and installation materials
- Color: RAL 1003 (yellow), more colors upon request = additional charge

L3-ST-0-24-R-M16
L3-ST-0-30-R-M20

ABS-Lock® III-R for steel (countered)

316 stainless steel anchorage connector, anchorage eyelet rotates a full 360° designed for attaching to steel/ countering (existing bore hole), tested acc. to ANSI Z359.1 & A10.32 and OSHA as a single point anchor.

- One standard size: M16 x 50 mm
- Incl. specification plate and installation materials
- Color: Yellow, more colors upon request = additional charge

L3-ST-0-50-R-M16

ABS-Lock® III-R for concrete

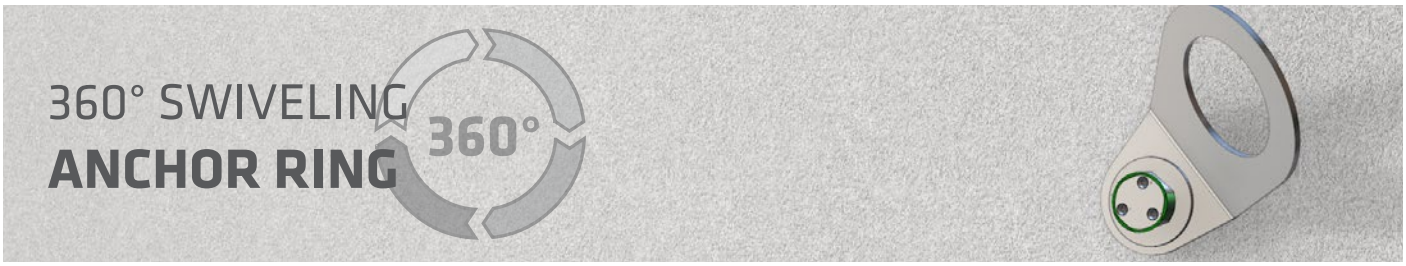
316 stainless steel anchorage connector, anchorage eyelet rotates a full 360!, designed for cementing into concrete using ABS special adhesive, tested acc. to ANSI Z359.1 & A10.32 and OSHA as a single point anchor.

- One standard size: M16 x 80 mm
- Incl. specification plate and installation materials
- Color: Yellow, more colors upon request = additional charge
- Cement Epoxy (EQ-1000) sold separately. See page 29.

L3-B-0-80-R-M16

PRODUCT	DESCRIPTION	ORDER NO.

ABS-Lock® V-R | with 360° rotating anchor ring



ABS-Lock® V-R

304 stainless steel anchorage connector with 360° rotating anchor ring, equipped with an replacable heavy-duty expansion anchor for installation in concrete.

- High tensile and shear load capacity
- Special safety cap ensures that the correct installation torque is always applied even without using a torque wrench
- Heavy-Duty fastenings in highly safety-relevant for dynamic applications, including applications in nuclear power plants

L5-B-R

ABS-Lock® V-R Sets

A set consisting of one rotating anchor ring and five heavy-duty anchors (L5-B-R-SET5) or ten heavy-duty anchors (L5-B-R-SET10). Picture on the left shows L5-B-R-SET10.

L5-B-R-SET5
L5-B-R-SET10

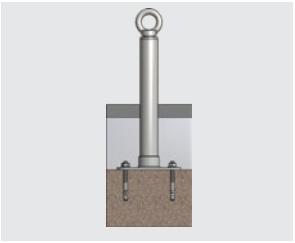
ABS-Heavy-Duty Bolt

A set consisting of one anchor loop and five heavy-duty anchors (L5-B-R-SET5) or ten heavy-duty anchors (L5-B-R-SET10). Picture on the left shows L5-B-R-SET10.

NO-HI-M12x117
NO-HI-M12x117-10

PRODUCT	DESCRIPTION	ORDER NO.	LENGTH

ABS-Lock® X-SR — Reinforced anchorage point with base plate

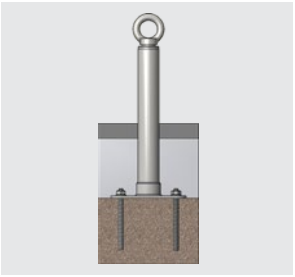


ABS-Lock® X-SR for concrete (expansion bolts)

Anchorage connector, reinforced for usage as an end post in a lifeline system, tested acc. to ANSI and OSHA Z359.1 & A10.32 as a single point anchor. Post diameter: Ø 1 $^{21}/_{32}$ in. Manufactured completely from 304 stainless steel.

- For concrete grades 3,000 psi and above
- Base plate: 5.9 x 5.9 in
- Incl. installation material

ORDER NO.	LENGTH
LX-SR-B-300	12 in
LX-SR-B-400	15.75 in
LX-SR-B-500	19.68 in
LX-SR-B-600	23.62 in
LX-SR-B-700	27.5 in



ABS-Lock® X-SR for concrete (anchor rod)

Anchorage connector, reinforced for usage as an end post in a lifeline system, tested acc. to ANSI Z359.1 & A10.32 and OSHA as a single point anchor. Post diameter: Ø 1 $^{21}/_{32}$ in. Manufactured completely from 304 stainless steel. Installed using 4 anchor rods and ABS special adhesive.

- For concrete grades 3,000 psi and above
- Base plate: 5.9 x 5.9 in
- Incl. installation material, Cement Epoxy (ZU-1000) sold separately.

ORDER NO.	LENGTH
LX-SR-B-300-A	12 in
LX-SR-B-400-A	15.75 in
LX-SR-B-500-A	19.68 in
LX-SR-B-600-A	23.62 in
LX-SR-B-700-A	27.5 in

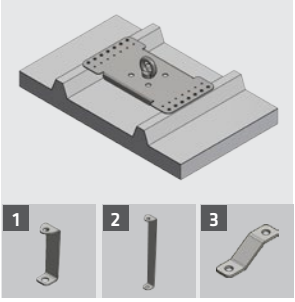
ABS-Lock® X-SR for steel

Anchorage connector, reinforced for usage as an end post in a lifeline system, tested acc. to ANSI Z359.1 & A10.32 and OSHA as a single point anchor. Post diameter: Ø 1 $^{21}/_{32}$ in. Manufactured completely from stainless steel (1.4301). Installed using 4 stainless steel screws and nuts.

- For steel structures / strut and bracket connections
- Base plate: 5.9 x 5.9 in
- Incl. installation material

ORDER NO.	LENGTH
LX-SR-ST-300	12 in
LX-SR-ST-400	15.75 in
LX-SR-ST-500	19.68 in
LX-SR-ST-600	23.62 in
LX-SR-ST-700	27.5 in

ABS-Lock® X — Metal roof solutions

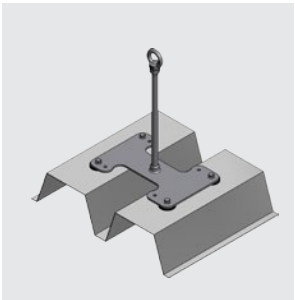


ABS-Lock® X-Rivet

Stainless steel anchorage connector for insulated metal roof panels. Tested in acc. with ANSI Z359.1 & A10.32 OSHA. Supplied with installation material: 14x ABS blind rivets and water proof mastic tape.

- For steel panels ≥ 26 gauge, base plate 14 $^{1}/_{4}$ x 7 $^{7}/_{8}$ in
- For upright rib intervals (center to center) of 11 $^{1}/_{32}$ to 13 $^{7}/_{64}$ in.
- **[1] LX-SW-N-ZW** = interm. post with Lock Eye, 5 $^{29}/_{32}$ in. elongation
- **[2] LX-SW-N-ZW-350** = see LX-SW-N-ZW, with 13 $^{25}/_{32}$ in.
- **[3] SY-1031-35** = Additional securing tab, e.g. for T-junctions

ORDER NO.
LX-SW-N
LX-SW-N-ZW
LX-SW-N-ZW-350
SY-1031-35



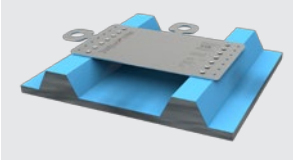
ABS-Lock® X-Trapez

Stainless steel anchorge connector for trapezoidal roof panels. Meets ANSI Z359.1 & A10.32 and OSHA requirements. Supplied with installation material: 4x stainless steel ABS toggle bolts.

- For steel panels ≥ 24 gauge, base plate 11 $^{27}/_{64}$ x 7 $^{7}/_{8}$ in. Ø $^{5}/_{8}$ in
- For upright rib intervals (center to center) of 7 $^{3}/_{32}$ to 9 $^{27}/_{32}$ in.
- Suitable as an intermediate. Add an ABS LX-STÜTZR for end and corner anchors.

ORDER NO.	LENGTH
LX-T-150	6 in
LX-T-300	12 in
LX-T-400	15.75 in
LX-T-400-SR	15.75 in
LX-T-500	19.68 in
LX-T-500-SR	19.68 in
LX-T-600	23.62 in
LX-T-600-SR	23.62 in

INNOVATION



ABS-Lock® X-Flat

Stainless steel sinfgle point anchor, tested acc. to ANSI Z359.1 & A10.32 OSHA. Extremy flat to guarantee the stackability of the containers.

- Sheet thickness ≥ 26 gauge
- For upright rib intervals (center to center) 11 $^{1}/_{32}$ to 13 $^{7}/_{64}$ in.
- Incl. installation material (14 blind rivets)

ORDER NO.
LX-FLAT-333

PRODUCT	DESCRIPTION	ORDER NO.	LENGTH

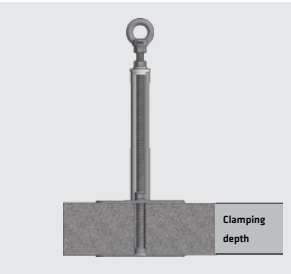
ABS-Lock® X — Anchorage point with adjustable base plate

ABS-Lock® X-Klemm

Stainless steel single point anchor with base and counter plate, designed for clamping, tested acc. to ANSI/ OSHA. Also suitable for usage as a system post in a lifeline system when fitted with an optional supporting tube (LX-STÜTZR-XXX, page 9).

- For wood, concrete or steel beams
- Standard base plate: 7 $^{7}/_{8}$ x 7 $^{7}/_{8}$ in, Specify beam size and type for custom fit
- Incl. installation material (4x stainless steel-threaded rods)

ORDER NO.	LENGTH
LX-KLEMM-300-SR	12 in
LX-KLEMM-400-SR	15.75 in
LX-KLEMM-500-SR	19.68 in
LX-KLEMM-600-SR	23.62 in



ABS-Lock® X-Durch

Stainless steel single point anchor with base and counter plate, designed to install through a specific structure, tested acc. to ANSI/OSHA. Also suitable as a system post in a HLL.

- For installation through walls, hollow profiles, lightweight concrete
- Cross-shaped base plate: 7 $^{7}/_{8}$ x 7 $^{7}/_{8}$ in
- Incl. installation material and support tube

NOTE: When ordering, pls. state the **ceiling/ clamping depth**.

ORDER NO.	LENGTH
LX-DURCH-300	12 in
LX-DURCH-400	15.75 in
LX-DURCH-500	19.68 in
LX-DURCH-600	23.62 in

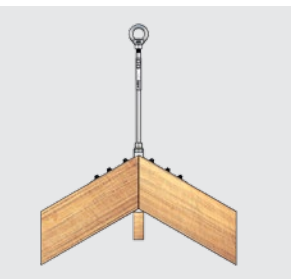
ABS-Lock® X — Wooden Surface Solutions

ABS-Lock® X-H-14+2

Stainless steel single point anchor for wooden panels and rafters, tested acc. to ANSI/ OSHA. Also suitable as a system post in a horizontal lifeline system when fitted with an optional support tube (LX-STÜTZR-XXX, page 9).

- For wooden beams greater or equal 2x6 in
- Base plate 7 $^{7}/_{8}$ x 7 $^{7}/_{8}$ in, Post Ø$^{5}/_{8}$ in
- Incl. installation material (14 short and 2 long screws)

ORDER NO.	LENGTH
LX-H-150-14+2	6 in
LX-H-300-14+2	12 in
LX-H-400-14+2	15.75 in
LX-H-500-14+2	19.68 in
LX-H-600-14+2	23.62 in



ABS-Lock® X-First II

Stainless steel single point anchor for installation on the roofs apex; tested in acc. with ANSI/ OSHA. Flexible base plate can be manually adjusted to fit any roof pitch.

- For wooden beams greater or equal 2x6 in
- Minimum bore depth: 3 $^{15}/_{16}$ in
- Incl. installation material

ORDER NO.	LENGTH
LX-FI2-300	12 in

Support tube for ABS-Lock® X

Stainless steel support tube for most ABS-Lock® X models, incl. force absorber. Must be used to support the ends and corners in a HLL. For roofs, walls, facades and overhead applications.

- XXX = protrusion
- **LX-STÜTZR-XXX** = for Lock X
- **XXX** = in different length, depending on the model/ type

ORDER NO.	LENGTH
L3-STÜTZR-400	15.75 in
L3-STÜTZR-XXX	custom length

PRODUCT	DESCRIPTION	ORDER NO.

Fall protection for pitched roofs

ABS-Lock® DH04-F (flat design)

Stainless steel roof safety hook with a flat shaft, serves as a single point anchor and as a ladder hook. Tested acc. to ANSI Z359.1 & A10.32 OSHA.

- Ideal for slate roofs with throughout paneling
- Fastened to the rafter (trough formwork and counterbattens)
- Also suitable for over-rafter insulation
- Incl. installation material, standard color: Niro nature

R = Red (RAL 3009) | **A** = Anthracite (RAL 7016) | **X** = custom color

DH04-VA-F
DH04-VA-F-R
DH04-VA-F-A
DH04-VA-F-X

ABS-Lock® DH04-OG (cranked design)

Stainless steel roof safety hook with a cranked shaft, serves as a single point anchor and as a ladder hook. Tested acc. to ANSI Z359.1 & A10.32 OSHA.

- Ideal for tiled roofs to bridge the roof battens
- Designed for rafter attachment (through the counter battens)
- Can also be used with over-rafter insulation
- Incl. installation material, standard color: Niro nature

R = Red (RAL 3009) | **A** = Anthracite (RAL 7016) | **X** = custom color

DH04-VA-OG
DH04-VA-OG-R
DH04-VA-OG-A
DH04-VA-OG-X

PRODUCT	DESCRIPTION	ORDER NO.

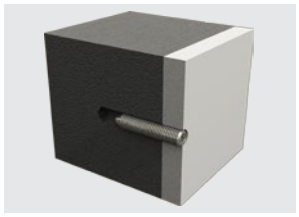
ABS-Lock® I+II — Anchorage points for securing windows

ABS-Lock® I

Stainless steel single point anchor tested acc. to ANSI Z359.1 & A10.32 and OSHA designed to be used in combination with our ABSLock® II.

NOTE: The ABS-Lock® I is removable and can therefore be used in many different locations. Crossbar prevents device from beeing accidently opened.

L1-1000



ABS-Lock® II for concrete / wood

„ABS-Lock® II“ sleeve. Tested acc. to ANSI/ OSHA as a single point anchor. Designed for use in combination with our „ABS-Lock® I“ socket pin. For concrete grades 3,000 psi and above, also cracked conrete.

- Available length: 3 $^{15}/_{16}$, 5 $^{29}/_{32}$ und 7 $^{7}/_{8}$ in. Other length upon request!

NOTE: Please check with ABS prior to installing in masonry.

L2-B-100
L2-B-150
L2-B-200

ABS-Lock® II for steel

„ABS-Lock® II“ sleeve. Tested acc. to ANSI/ OSHA as a single point anchor. Designed for use in combination with our „ABS-Lock® I“ socket pin. Designed for steel structures.

- Incl. installation material
- 1= Available length: 3 $^{15}/_{16}$, 5 $^{29}/_{32}$ and 7 $^{7}/_{8}$ in. Other length upon request!
- 2= Extra short thread (1 $^{3}/_{16}$ in), with hexagonal crwon for countering.

L2-ST-30
L2-ST-100
L2-ST-150
L2-ST-200

Stainless steel protective cap

Stainless steel protective cap for ABS-Lock® II

- Diameter: 1 $^{37}/_{64}$ in
- self-closing when installed in masonry

L2-VA-DECKEL

Included with ABS-Lock® II

Each ABS-Lock II is supplied with 1x protective cap (white) and 1x protective cap (black).

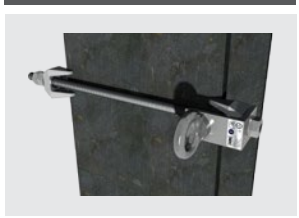
ABS-Lock® I telescopic rod

Telescopic device designed to hook up or unhook a Lock I socket pin from a Lock II sleeve installed in the ceiling from a standing position.

■ **TELE-1** = 1.9 ft - 3.2 ft ■ **TELE-3** = 5.3 ft - 9.5 ft ■ **TELE-4** = 6.9 ft - 12.8 ft

L1-TELE-1
L1-TELE-3
L1-TELE-4

ABS-Lock® T — Anchorage point for clamping onto a steel beams



ABS-Lock® T

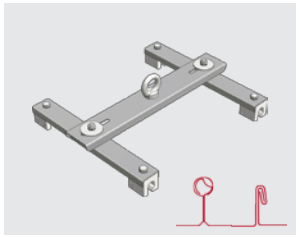
Single point anchor designed to be clamped permanently to a steel beam, tested acc. to ANSI Z359.1 & A10.32 and OSHA. Also suitable as a intermediate post in a lifeline sytem. Stainless steel angular plate, rod and eyelet, clamps = hot-galvanized steel. Suitable as an anchor in an ABS lifeline system.

- For flange width: $^{5}/_{16}$ in to $^{5}/_{8}$ in
- For beam width up to 12 $^{19}/_{32}$ in

LT

PRODUCT	DESCRIPTION	ORDER NO.

ABS-Lock® Falz IV | Metal profile clamps

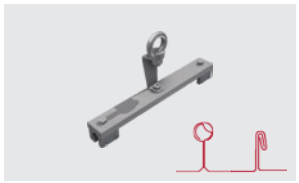


ABS-Lock® Falz IV

Stainless steel anchor for standing and angle seam roofs, tested according to ANSI Z359.1 & A10.32 / OSHA. Also suitable as an ABS lifeline system post.

- For seam intervals of 11.8-17.7 in and 16.6-30 in
- For overlap or single lock batten seams

PF-4-USA-450
PF-4-USA-660
PF-4-RB-450
PF-4-RB-660
PF-4-ST-450
PF-4-ST-660

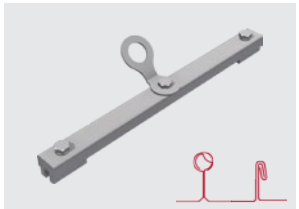


ABS-Lock® Falz IV intermediate

Stainless steel intermediate bracket for standing and angle seam roofs, for ABS lifeline systems. Not suitable as a single point anchor.

- Attached to a single seam using two clamps
- For overlap or single lock batten seams

PF-4-USA-ZW
PF-4-RB-ZW
PF-4-ST-ZW



ABS-Lock® Falz V single point anchor

Stainless steel single point anchor for standing and angle seam roofs, fits any seam interval. Stainless steel tab.

- Can be attached to a single seam using two clamps
- For overlap or single lock batten seams

PF-5-USA
PF-5-ST
PF-5-RB

EXPLENATION: USA: without clamps for special seams, RB: rounded-edge seams, ST:standing seams

PRODUCT	DESCRIPTION	ORDER NO.

ABS-Lock® X-HULK Heavy Duty Tie Back Anchors

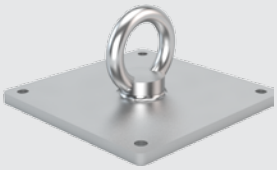
ABS-Lock® X-HULK

LX-HULK

ABS-Lock® X-HULK tie back adhesive bolt anchor consist of a hollow 304 stainless steel post (HSS) reinforced with an inner thread and stainless steel base plate. The anchor can be secured to concrete roof slabs using adhesive 5/8" anchor bolts. Our ABS-Lock® X-HULK is tested according to all Canadian and U.S. tieback anchorage standards.

Suitable for all flat roofs for the tying back of suspended access equipment such as outrigger beams and parapet wall clamps. Also suitable for suspension of boatswain chairs.May be used as fall arrest anchors for securing workers´ lifelines but must not be used as a fall protection anchor and equipment tie back post at the same time.

- 16 in 304 stainless steel tie back post
- Custom heights available on request
- Suitable for backup safety of suspended access equipment
- Suitable for a fall protection anchor



ABS-Lock® X-HULK JR

LX-HULK-JR

ABS-Lock® X-HULK-JR adhesive bolt anchors consist of a 304 stainless steel eye on a stainless steel base plate. Suitable for installation to concrete structures with a minimum 4,000 psi. For tying back of suspended access equipment such as outrigger beams, parapet wall clamps and boatswain chair. May be used as fall arrest anchor for securing workers´ lifelines.

Must not be used as a fall protection anchor and equipment tie back post at the same time. Our ABS-Lock® X-HULK-JR is tested according to all Canadian and U.S. standards.

- 304 stainless steel tie back wall anchor
- Suitable for backup safety of suspended access equipment
- Suitable for a fall protection anchor

PRODUCT	DESCRIPTION	ORDER NO.

Standard components

Lifeline system Ø 5/16 in (8 mm)

ABS-Lock® SYS I - non-traversable system
ABS-Lock® SYS II - traversable system

ABS special stainless steel cable $^{5}/_{16}$ in (8 mm)

- 316 stainless steel cable for ABS-Lock® SYS I and II
- Completely made from AISI 316
- Weight: about 3 oz/ ft

SY-1000

ABS 8000 tensioning element $^{5}/_{16}$ in (8 mm)

316 stainless steel end bracket with clevis and integrated tensioning device.

- Basic component in all ABS-Lock® SYS I/ SYS II lifeline systems
- Attached to the cable onsite

SY-1007

ABS 8620 clevis $^{5}/_{16}$ in (molded-on) (8 mm)

Stainless steel end bracket for ABS-Lock® SYS I/ SYS II lifeline systems.

- Supplied pre-molded to one end of the cable
- Completely made from 316 stainless steel

SY-1051

ABS 8020 clevis $^{5}/_{16}$ in (not molded-on) (8 mm)

Stainless steel end bracket for ABS-Lock® SYS I and II lifeline systems.

- Attached to the cable onsite
- Completely made from 316 stainless steel

SY-1008

The ABS-Lock® SYS Agenda:

Vital components in all ABS-Lock® SYS lifeline systems:

End brackets

For 262 ft cable sections:
1x tensioning element w. integr. clevis
1x clevis (standard: molded-on)

For cable sections ≥ 262 ft:
2x tensioning elements w. integr. clevis
for stretches of approx. 492-656 ft ,
depending on the systems layout

Cable and labeling:

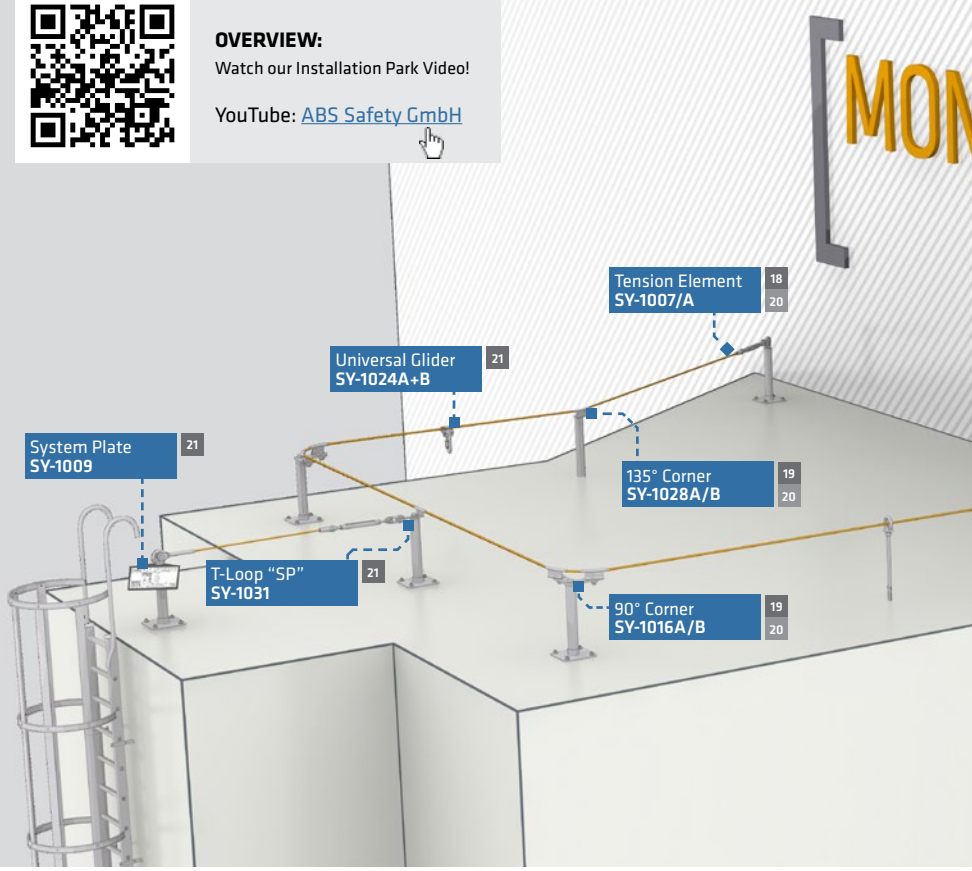
1x specification plate
Required length of cable

Traversable lifeline system:

Traversable corner units
Traversable intermediate posts
1x cable glider per person

OVERVIEW:
Watch our Installation Park Video!

YouTube: ABS Safety GmbH



PRODUCT	DESCRIPTION	ORDERN NO.

Optional components for traversable systems

ABS intermediate cable bracket $^{5}/_{16}$ in (8 mm)

Stainless steel intermediate bracket for our ABS-Lock® SYS II system. **SY-1015B**

- Fully trversable using an ABS universal glider (SY-1024A+B, page 16)
- Incl. installation materials

ABS SZH-S

Stainless steel interm. cable bracket, overhead intallation (ABS-Lock® SYS II) **SY-1015**

- Fully traversable overhead solution **SY-1015-S**
- Use only in combination with ABS GLEIT-RO (**SY-1037**, page 16)

ABS 90° corner element

Stainless steel corner element with carrier plate, for 90° curves, installed on top of an ABS post for facade corner plate. Fully traversable. **SY-1016B**

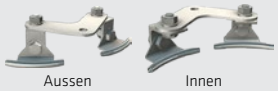
- For inner and outer corners

ABS 135° corner element

Stainless steel curve element for 135° corners, installed on top of an ABS post. **SY-1028B**

Fully traversable using an ABS universal glider (SY-1024A+B, page 16)

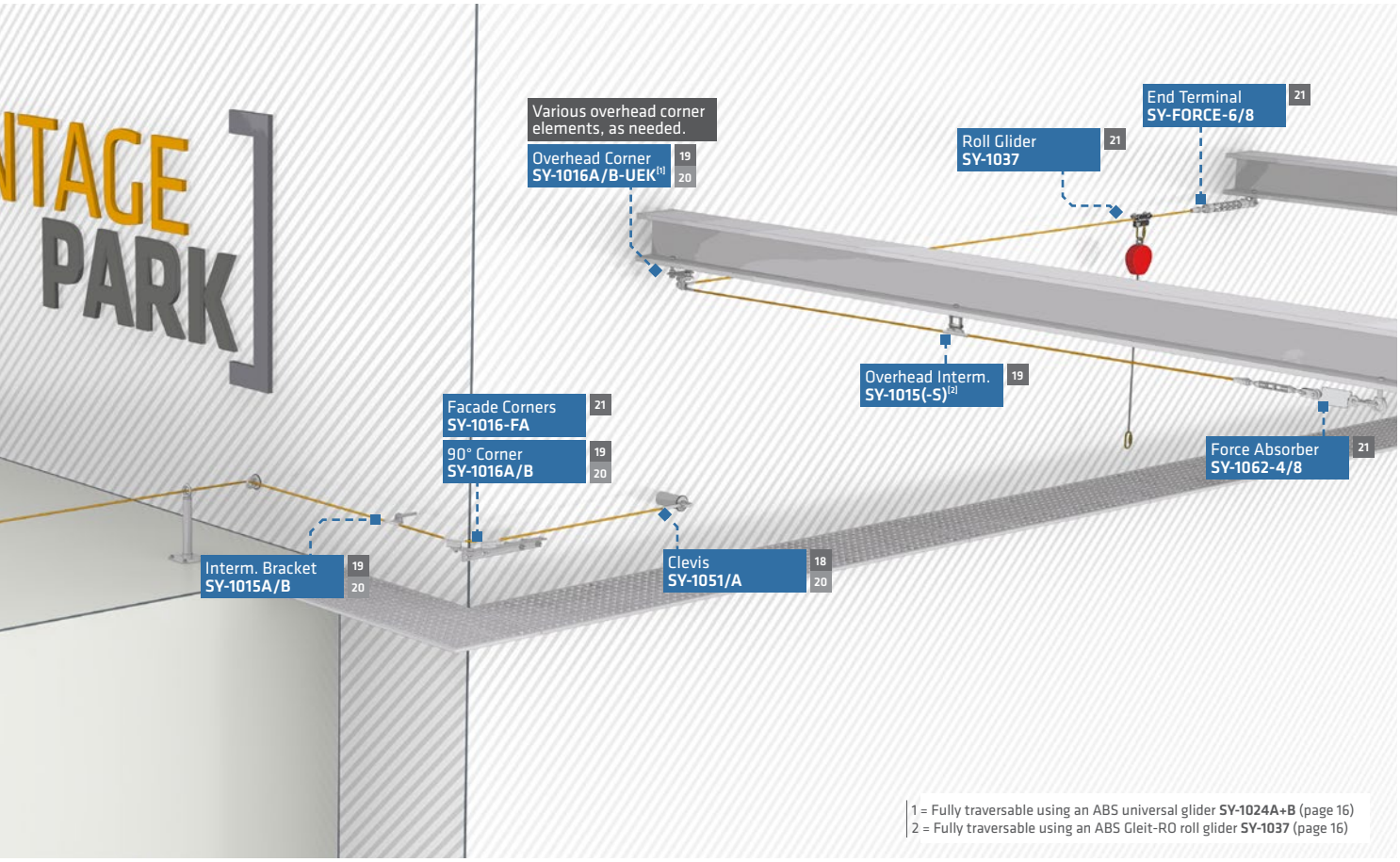
- For inner and outer corners



ABS overhead Ø8mm inner / outer

Stainless steel corner element for 90° corners, installed on top of an ABS post or facade corner plate. Incl. installation materials **SY-1016B-UEK-A** **SY-1016B-UEK-I**

- **SY-1016B-UEK-A** = outer corner
- **SY-1016B-UEK-I** = inner corner


Various overhead corner elements, as needed.
Overhead Corner SY-1016A/B-UEK[1] 19 20
End Terminal SY-FORCE-6/8 21
Roll Glider SY-1037 21
Overhead Interm. SY-1015(-S)[2] 19
Facade Corners SY-1016-FA 21
90° Corner SY-1016A/B 19 20
Force Absorber SY-1062-4/8 21
Interm. Bracket SY-1015A/B 19 20
Clevis SY-1051/A 18 20

1 = Fully traversable using an ABS universal glider **SY-1024A+B** (page 16)
2 = Fully traversable using an ABS Gleit-RO roll glider **SY-1037** (page 16)

PRODUCT	DESCRIPTION	ORDER NO.

ADDITIONAL COMPONENTS

ABS Specification Plate

Aluminum specification plate for lifeline systems

- SY-1009-F: [1] Flat design - hooked onto a cable or attached to a wall. **SY-1009**
- SY-1009: [2] Angular d esign for attachment to a system post. **SY-1009-F**

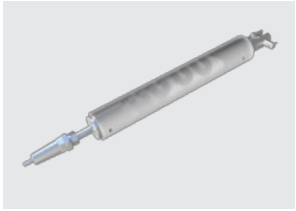
ABS SP

Stainless steel connector tab, designed to connect two cable ends to a single post or to create a T-junction in a lifeline system. **SY-1031**

ABS Force Absorber: 8 kN resp. 4 kN

Stainless steel force limiter, reduces the force ensuing from a fall (one idividual) to max. 8 kN (SY-1062-8) resp. max 4kN (SY-1062-4) **SY-1062-8** **SY-1062-4**

- Casing indicates a fall



ABS FORCE Force Absorber

5-in-1 end attachment with clevis, cleverly combines the following features: [1.] Tensioning element, [2.] Spring pre-loading, [3.] Cable clamp, [4.] Force absorber max. 8 kN, [5.] Fall indicator, [6.] Pre-load indicator **SY-FORCE-8** **SY-FORCE-8-A**

- **SY-FORCE-8** = For SYS I and II
- **A** = Optional: Alarm system connector

Bracket for facade corners

Bracket for 90° corners- corners - attached laterally to the facade edge. SY-1016A, resp. B, is fixed in place using the upper holes and leads the cable around the corner. Incl. installation materials for structures < 200 mm. **SY-1016-FA**

ABS universal glider

Detachable cable glider made of steel combined with a special bronze alloy, an ABS carabiner hook is used to close the system. **SY-1024A+B**

- For our ABS SYS II traversable lifeline system

ABS overhead glider

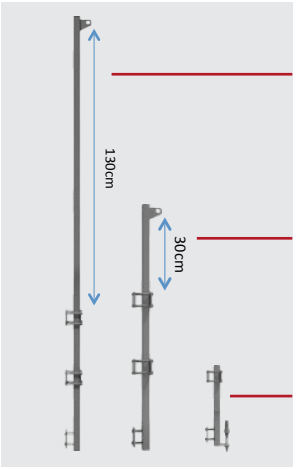
Stainless steel overhead glider. Glides perfectly along stainless steel cable. Ideal in combination with a self-retracting lifeline. **SY-1037**

- For **straight** Ø8mm horizontal lifeline sections

PRODUCT	DESCRIPTION	ORDER NO.

Vertical lifeline system

ABS SafetyHike® vertical lifeline



ABS SafetyHike® upper bracket (long)

Upper SafetyHike® bracket with long extension. **SH-TOP-L**

- Completely made from 304 stainless steel
- Extension: about 4.2 ft above the top rung

ABS SafetyHike® upper bracket (short)

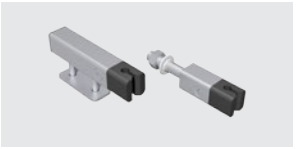
Upper SafetyHike® bracket with short extension. **SH-TOP-S**

- Completely made from 304 stainless steel
- Extension: about 1 ft above the top rung

ABS SafetyHike® end bracket

Lower ABS SafetyHike® bracket. **SH-END**

- With integrated tensioning device
- Completely made from 304 stainless steel



ABS SafetyHike® intermediate bracket

Intermediate cable bracket designed for attachment to a ladder rung. **SH-ZW**
SH-ZW-M16

- Recommended intervals: inner: every 20-23 ft, outer: every 16-20 ft
- For clamping ■ **M16** = srewed on or through

ABS SafetyHike® special stainless steel cable

ABS SafetyHike® vertical lifeline system stainless steel cable

- 304 stainless steel cable, diameter: Ø$^{5}/_{16}$ in (8mm) **SY-1000**
- Weight: 2.6 oz/ft

ABS 8620 clevis 5/16 in (molded-on)

304 stainless steel end bracket for ABS-Lock® SYS I and II lifeline systems and the ABS SafetyHike® vertical lifeline system. **SY-1051**

- Supplied pre-molded to one end of the cable

ABS SafetyHike® vertical lifeline glider

Vertical lifeline glider for the ABS SafetyHike® system, with integrated, extra-short force absorber and carabiner hook, designed for 1 individual. **SH-GLEIT**

- Device locks automatically in case of a fall

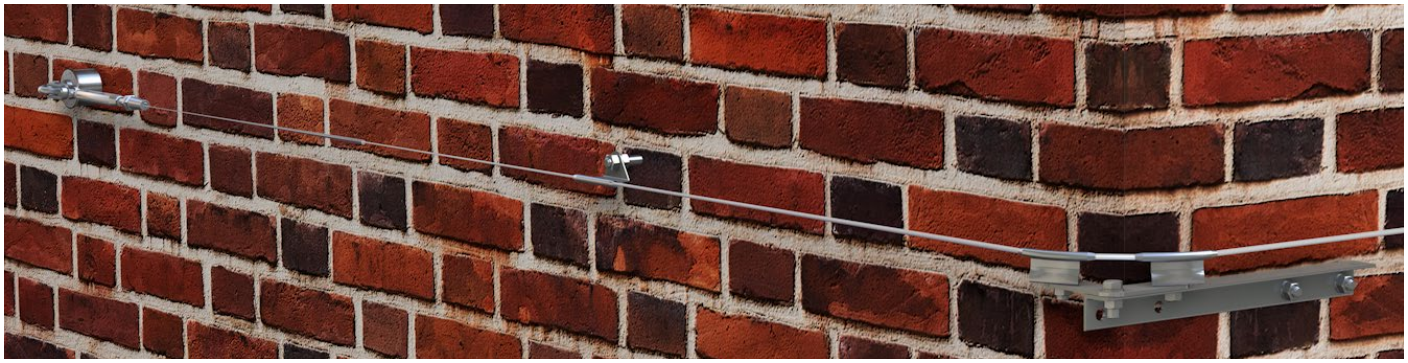
ABS specification plate

Aluminum specification plate for lifeline systems

- SY-1009-F: [1] Flat design - hook onto a cable or attach to a wall **SY-1009-F**
- SY-1009: [2] Angular design - attach to a system post **SY-1009**

PRODUCT	DESCRIPTION	ORDER NO.

Horizontal lifeline Kits — Group A



ABS HII Kits Wall Mount Concrete

The ABS-Lock® SYS II horizontal lifeline fall protection kit for concrete wall mount applications comes with all the components necessary for DIY installation. The multi-span pre-engineered kit includes all necessary anchors (amount depending on system length), in-line energy absorber, 8 mm wire rope, by-passes and intermediates, tensioning and wire rope termination devices, system identification plate and instruction for installation, use and care. Special ABS-Lock® EQ-1000 concrete adhesive (sold separately) is required. Connect to the system with a SY-1024 A+B ABS-Lock® Universal Glider (sold separately) for safe & uninterrupted horizontal movement.

- High grade corrosion resistant stainless steel
- Pre-engineered system
- Two persons capacity per span

WMSYII-B-30
WMSYII-B-40
WMSYII-B-60
WMSYII-B-100
WMSYII-B-120
WMSYII-B-140
WMSYII-B-160
WMSYII-B-180
WMSYII-B-200

ABS HII Kits Steel Mount Applications

The ABS-Lock® SYS II lifeline fall protection kit for steel mount applications comes with all components necessary for DIY installation. The pre-engineered kit includes all necessary anchors (amount depending on system length), in-line energy absorber, 8 mm wire rope, intermediate supports & by-passes (amount depending on system length), tensioning and wire rope termination devices, system identification plate and instruction for installation, use and care. Connect to the system with a SY-1024 A+B ABS-Lock® Universal Glider (sold separately) for safe & uninterrupted horizontal movement.

- High grade corrosion resistant stainless steel
- Smooth Operation
- Two person capacity per span
- Pre-engineered system

WMSYII-ST-30
WMSYII-ST-40
WMSYII-ST-60
WMSYII-ST-100
WMSYII-ST-120
WMSYII-ST-140
WMSYII-ST-160
WMSYII-ST-180
WMSYII-ST-200

ABS HII Kits Overhead Concrete Mount

The ABS-Lock® SYS II horizontal lifeline fall protection kit for overhead concrete mount applications comes with all the components necessary for DIY installation. The pre-engineered kit includes all necessary end- and /or intermediate anchors (amount depending on the systems length), in-line energy absorber, 8 mm wire rope, intermediate supports & by-passes (amount depending on the system length), tensioning and wire rope termination devices, system identification plate and instruction for installation, use and care. Special ABS-Lock EQ-1000 concrete adhesive (sold seperately) is required. Connect to the system with a SY-1037 ABS-Lock Universal Glider (sold seperately) for safe & uninterrupted horizontal movement.

- High grade corrosion resistant stainless steel
- Smooth Operation
- Ideal for vehicle loading, maintenance bays and other industrial applications

OHSYII-B-30
OHSYII-B-60
OHSYII-B-80
OHSYII-B-100
OHSYII-B-120
OHSYII-B-140
OHSYII-B-160
OHSYII-B-180
OHSYII-B-200

PRODUCT	DESCRIPTION	ORDER NO.

Horizontal lifeline Kits — Group A

ABS HII Kits Overhead Steel Mount

The ABS-Lock SYS II horizontal lifeline fall protection kit for overhead steel beam mount applications comes with all the components necessary for DIY installation. The pre-engineered kit includes all necessary anchors (amount depending on system length), in-line energy absorber, 8 mm wire rope, intermediate supports & by-passes (amount depending on system length), tensioning and wire rope termination devices, system identification plate and instruction for installation, use and care. Connect to the system with an SY-1037 ABS-Lock® Overhead Glider (sold seperately) for safe and uninterrupted horizontal movement.

- High grade corrosion resistant stainless steel
- Smooth Operation
- Ideal for vehicle loading, maintenance bays and other industrial applications

OHSYII-ST-30
OHSYII-ST-60
OHSYII-ST-80
OHSYII-ST-100
OHSYII-ST-120
OHSYII-ST-140
OHSYII-ST-160
OHSYII-ST-180
OHSYII-ST-200

ABS HII Kits for Concrete Roofs

The ABS-Lock® SYS II lifeline fall protection kit for concrete roof mounting applications comes with all the components necessary for DIY installation. The pre-engineered kit includes protruding and energy absorbing anchor posts with fasteners, 8 mm wire rope, intermediate supports & by-passes (amount depending on the system length); tensioning and wire rope termination devices, system identification plate and instruction for installation, use and care. Connect to the system with a compatibel snaphook, carabiner or an SY-1024 A+B ABS-Lock® Universal Glider (sold seperately) for uninterrupted horizontal movement.

- High grade corrosion resistant stainless steel
- Ideal for roof top fall protection
- Pre-engineered system
- Available with different post heights (xxx = 300/ 400/ 500 mm protrusion)

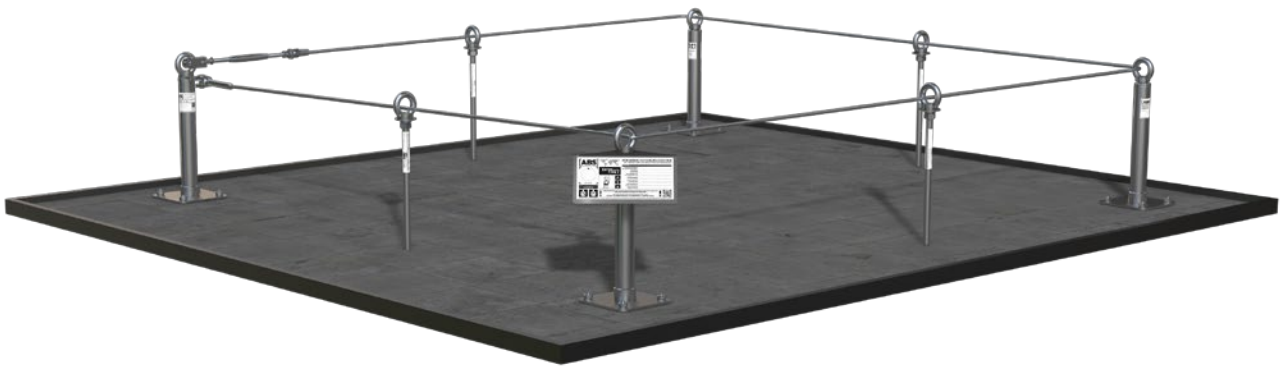
RMSYII-B-XXX-30
RMSYII-B-XXX-60
RMSYII-B-XXX-100
RMSYII-B-XXX-130
RMSYII-B-XXX-160
RMSYII-B-XXX-180
RMSYII-B-XXX-200

ABS HII Kits for Roofs with steel beam substructure

The ABS-Lock® SYS II lifeline fall protection kit for roofs with steal beam substructure mounting applications comes with all the components necessary for DIY installation. The pre-engineered kit includes protruding and energy absorbing anchor posts with fasteners, 8 mm wire rope, intermediate supports & by-passes (amount depending on the system length); tensioning and wire rope termination devices, system identification plate and instruction for installation, use and care. Connect to the system with a compatibel snaphook, carabiner or an SY-1024 A+B ABS-Lock® Universal Glider (sold seperately) for uninterrupted horizontal movement.

- High grade corrosion resistant stainless steel
- Ideal for roof top fall protection
- Pre-engineered system
- Available with different post heights (xxx = 300/ 400/ 500 mm protrusion)

RMSYII-ST-XXX-30
RMSYII-ST-XXX-60
RMSYII-ST-XXX-100
RMSYII-ST-XXX-130
RMSYII-ST-XXX-160
RMSYII-ST-XXX-180
RMSYII-ST-XXX-200



PRODUCT	DESCRIPTION	ORDER NO.

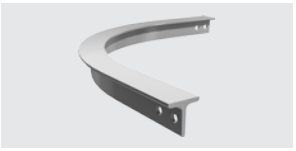
Rail System — Group B

ABS RailTrax Rail System
All products also available in 316-stainless steel!
Therefore choose the products with the A4
at the product no´s end.
Attention: The glider is always in 316-stainless steel.

ABS RailTrax® Rail 9.8 feet

304 stainless steel rail; length 9.8 ft (+/- 1 in), holes on both sides to continue or completing the rail run. **Special length on request!**

RT-S-3000
RT-S-3000-A4



ABS RailTrax® horizontal corner element

304 stainless steel corner element for overhead or flat roof applications. Important: Check the required radius!

- **RT-HK-90 =** Radius fix 220mm/90°
- **RT-K-XXX =** custom radius

RT-HK-90
RT-HK-90-A4
RT-K-XXX
RT-K-XXX-A4

ABS RailTrax® rail glider

1 Person rail glider for the ABS RailTrax® System.

- Completely made from 316 stainless steel
- Very persistant for a long life

RT-GLEIT

ABS RailTrax® intermediate connector

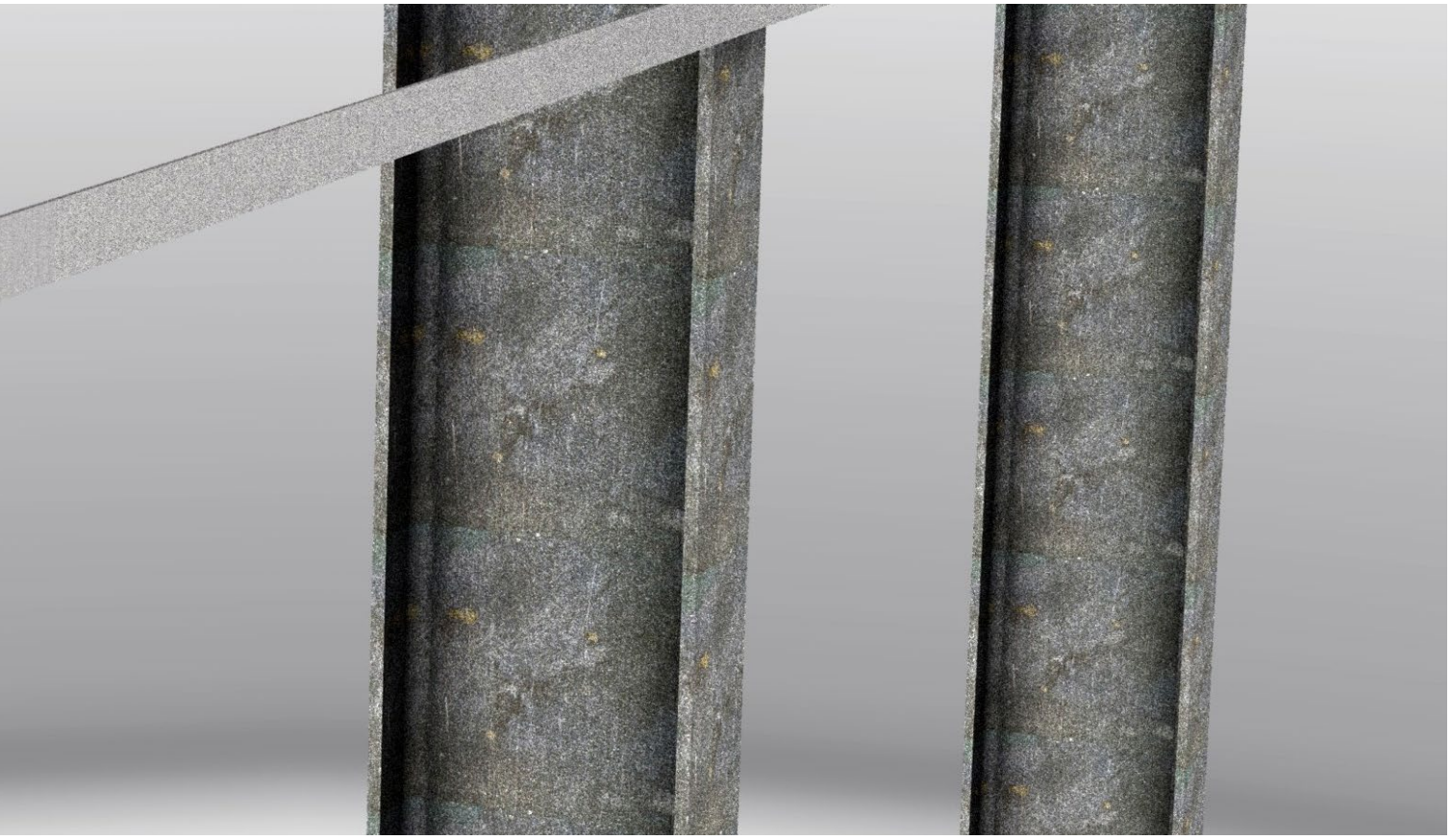
Intermediate bracket for the ABS RailTrax® system, specially designed for joins, i.e. connecting two rail sections, made from 304 stainless steel.

- Incl. installation material for: **B** = concrete, **ST** = steel
- **RT-ZW-V-100** = 3.9 in (100 mm) loop for facades and installation on ABS

RT-B-ZW-V
RT-B-ZW-V-A4
RT-ST-ZW-V
RT-ST-ZW-V-A4
RT-ZW-V-100
RT-ZW-V-100-A4

PRODUCT	DESCRIPTION	ORDER NO.

Rail System — Group B



ABS RailTrax® 4-hole-connector

Rail connector without attachment to the substructure, 304 stainless steel

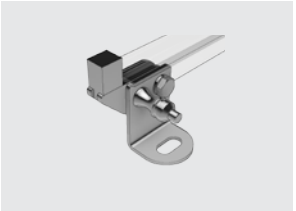
RT-VB
RT-VB-A4

ABS RailTrax® intermediate anchor

As described above, used in applicatoions where the rail joints do not match the attachment points, manufactured completely from 304 stainless steel.

- Including installation material: **B** = concrete dowels, **ST** = steel screws
- **RT-ZW-100** = 4 in-loop for installation on facades or ABS posts.

RT-B-ZW
RT-B-ZW-A4
RT-ST-ZW
RT-ST-ZW-A4
RT-ZW-100
RT-ZW-100-A4



ABS RailTrax® end bracket

End bracket for the ABS RailTrax® System, including security pin to allow the glider to be attached and removed from the system. 304 stainless steel

- Including installation material for: **B** = concrete dowels, **ST** = steel screws
- **RT-END-100** = 4 in-loop for installation on facades or ABS posts.

RT-B-END
RT-B-END-A4
RT-ST-END
RT-ST-END-A4
RT-END-100
RT-END-100-A4

PRODUCT	DESCRIPTION	ORDER NO.

Mobile Anchors

ABS door jam

Mobile fall protection anchor for door openings. Tested in according to ANSI/ OSHA. This door jam is easily installed - no tools required.

- For door frames with a maximum opening of 3.6 ft.
- When used by two persons, maximum opening: 2.9 ft.
- Contact face covered with synthetic to protect the structure
- Weight: 22 lb

PS-1069

ABS LaddQuick | Temporary ladder fixation

ABS LaddQuick

Temporary ladder safety device, provides additional protection by preventing a ladder from tipping. Spring mechanism allows device to be easily clamped between two rungs and then hooked onto e.g. rain gutter, fence, etc.

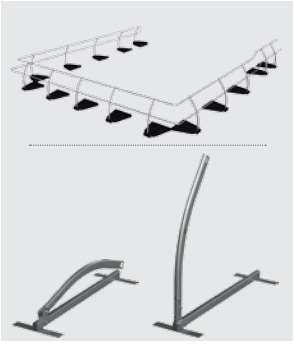
- Rubber coated hooks to protect the structure from damages
- Temporary: Convienient and fast installation and removal
- Material: Aluminum

LF-QUICK

PRODUCT	DESCRIPTION	ORDER NO.

ABS AluRail | Guardrail System

ABS AluRail
Guardrail designed for penetration-free installation on flat roofs with a pitch of up to 10°. Compact, ultralight and extremely easy to install
ABS AluRail - Fusion
Bitumen patches
ABS AluRail - Fusion
PVC fusion patches
ABS AluRail - Weight
Weights



ABS AluRail

High-quality guardrail (aluminum/ stainless steel), designed for penetration-free installation. Tested according to ANSI/ OSHA, roof pitch ≥ 10°. 3 models available: Fusing onto bitumen membrane (SG2-GUARD-B), for fusing onto PVC (SG2-GUARD-F), counterweighted (SG2-GUARD-G).

- Max. distance between supports: 8.5 feet
- Bitumen/ PVC: Low roof load: Less than 11 lb. per 3.3 ft.

SG2-GUARD-G
SG2-GUARD-B
SG2-GUARD-F

Accessories for corners, end brackets etc.

ABS St-W90

90°-corner for hand and knee rails

- Completely made from aluminum

SG2-ECKE-FIX

ABS St-Var

Adjustable corner element for custom angles.

- Fully adjustable angle

SG2-ECKE-VAR

ABS End Bail

End Bail for free-standing systems, made from aluminum.

- Closes the system by connecting hand and knee rail

ABS Wall Bracket

End bracket for attaching the hand and/ or knee rail to a wall

- Made from aliminum
- Dowels not included

SG2-ENDBÜGEL
SG2-WAND

PRODUCT	DESCRIPTION	ORDER NO.

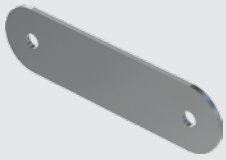
ABS AluRail | Guardrail System

ABS AluRail - Toeboard

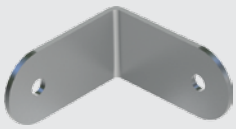
Optional aluminum rail for ABS AluRail guard rail system, 5.9 ft high. This additional board is required for zones without parapet wall or where the roofs edge is not otherwise protected.

SG2-FL-3

Accessories

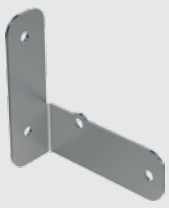


Stainless steel connector
SG2-FL-VB



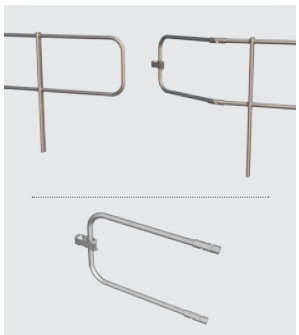
Stainless steel angular bracket
SG2-FL-VB-ECK

Bracket for installing an ABS ??? using weights
SG2-FL-ANSCHLUSS-G



Bracket for use when fusing an ABS ??? onto bitumen or PVC
SG2-FL-ANSCHLUSS-K

ABS ??? | Horizontal guard rail | Group B



ABS Gate

Optional door gate for the ABS AluRail guard rail system.

SG2-GATE

PRODUCT	DESCRIPTION	ORDER NO.

ABS AluCage | Sky Light Safety

ABS AluCage

Penetration free collective fall protection system for securing a domed rooflight.

Tested according to ANSI/ OSHA for roof pitches up to 10°.

- Made from stainless steel and aluminum

SG2-DOME-X-**XX** = The last two digits stand for the length of the side of the domed rooflight in meters. The ABS ??? itself is 1.6 ft longer.

SG2-DOME-G-1,5
SG2-DOME-G-2
SG2-DOME-G-2,5

PRODUCT	DESCRIPTION	ORDER NO.

ABS RoofWay

Roofway-rubber pavement slab

ABS RoofWay

Anti-slip rubber pavement slab, provides a secure and marked walkway on the roofs surface. Equipped with a protective fleece backing.

- For plastic membrane and bitumen roofs
- Size 50x50x3cm
- Assembled using plug-in connectors:
  - **RW-R** = connectors along the front and rear edges
  - **RW-R-4** = Connectors on all 4 sides for increased stability and for creating a two-lane system or junction!

RW-R
RW-R-4

PRODUCT	DESCRIPTION	ORDER NO.

Personal protective equipment

ABS B-Lock 6.5 ft

Extreme lightweight self-retracting lifeline, ideal for being transported along with the user (frontal or dorsal attachment to the safety harness).

- 1 in wide webbing, length 6.5 ft; made from polyamide
- Compact and lightweight
- Swiveling bracktes at the bottom and top prevent the webbing from twisting
- Incl. fall indicator attached to the snap-hook

PS-BL-B-2

ABS B-Lock 11.5 ft

Self-retracting lifeline with steel cable (**= S**) or webbing (**= B**), extractable up to 11.5 ft; robust, specially designed sythetic casing.

- Choice of a 1 in wide webbing lanyard, or a steel cable Ø $^{3}/_{16}$ in, galvanized steel
- Swiveling bracktes at the bottom and top prevent the webbing/cable from twisting, fall indicator included

PS-BL-B-3,5
PS-BL-S-3,5

Product may differ from the image, depending on the length/ connector

ABS B-Lock 19.5 - 98 ft

Universal self-retracting lifeline with synthetic casing, equipped with either a steel cable (**= S**) or webbing (**= B**), available in length ranging from 19.5 to 98 ft.

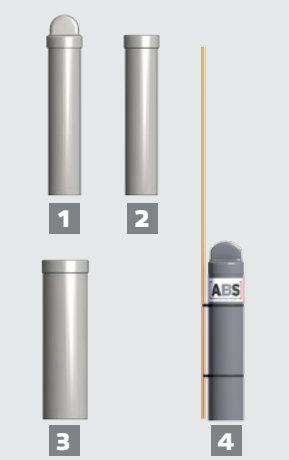
- Choice of a 1 in wide webbing lanyard, or a steel cable Ø $^{3}/_{16}$ in, galvanized steel
- Swiveling bracktes at the bottom and top prevent the webbing/cable from twisting, fall indicator included

PS-BL-B-6
PS-BL-B-12
PS-BL-S-6
PS-BL-S-10
PS-BL-S-15
PS-BL-S-20
PS-BL-S-25
PS-BL-S-30

PRODUCT	DESCRIPTION	ORDER NO.

Accessories

Thermal protective cap



ABS THERM

Thermal protective cap, 12.5 in length, made from UV- and weather resistant sythetic material. Designed to cover and protect protruding anchor sections above the roof membrane. Cap is not sealed in!

Can be cut to size onsite.

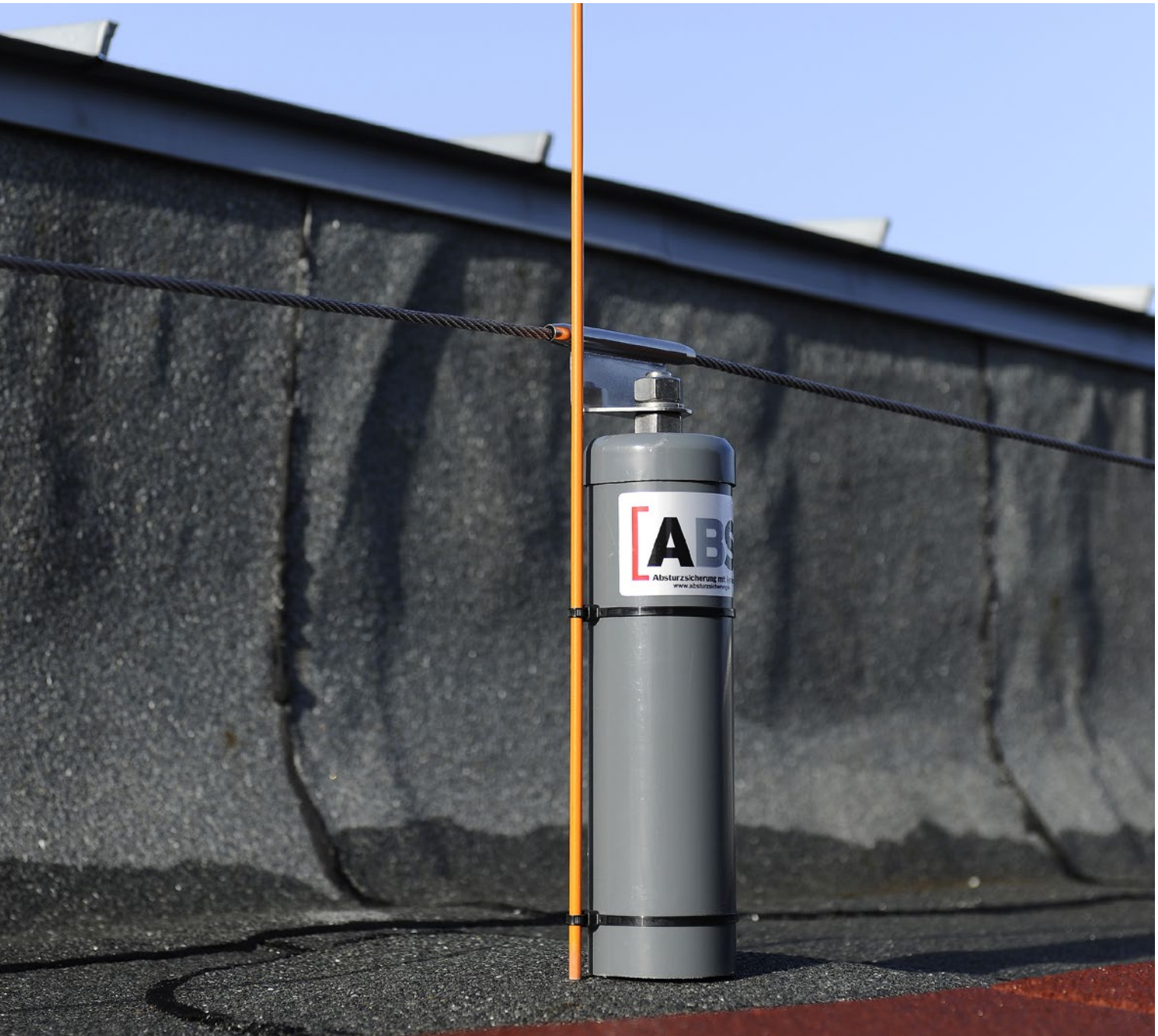
ZU-1009
ZU-1009-F
ZU-1009A-F

- **ZU-1009** = [1] For ABS-Lock® III und X models
- **ZU-1009-F** = [2] For ABS-Lock® III und X models in lifeline systems
- **ZU-1009A-F** = [3] For ABS-Lock® X-SR models and for lifeline systems

Accessories: ABS SIGNAL

[4] Signal and marking rod for ABS-Lock® - anchorage connectors. **ZU-SIGNAL-80**

- Attached to the ABS THERM using two plastic ties
- Ideal in winter: Anchors covered in snow are still visible!
- 31.5 in long, Ø 0.2 in, material: bright colored fiber glass composite



PRODUCT	DESCRIPTION	ORDER NO.

Accessories — Sealant collars

SANDED

ABS BITU

Bitumen-sealant collar sanded for bitumen roofs.

- For bitumen roof membranes
- For Ø5/8 **in** and Ø**1.6 in** posts
- 4 in shrink tube included

ZU-BITU-16
ZU-BITU-42

Farbe kann je nach Kunststoffart abweichen

ABS collar for plastic membranes

Sealant collar for PVC, PP and PE roofs.

- **PVC** = for Sikaplan, Bauder, FDT, Wolfin, Alwitra, Flag, Alkorplan F
- **PP** = for Bauder, FDT, Vedag, Wolfin, Flag, Sucoflex
- **PE** = for Polyfin, Nebiprofa, Schedetal
- For Ø5/8 **in** and Ø**1.6 in** posts; 4 in shrink tube included

ZU-PVC-16
ZU-PVC-42
ZU-PP-16
ZU-PP-42
ZU-PE-16
ZU-PE-42

ABS EPDM

EPDM-sealant collar for cold-bonding

- For bitumen roof membranes
- For Ø5/8 **in** and Ø**1.6 in** posts
- Tube clamp included

ZU-1006

Accessories — Collar extensions

ABS collar extension (for Ø5/8 in posts)

Sealant shinking tube for an ABS collar, extends the seal above the water-bearing bed, e.g. on inverted roofs

- Standard length 11.8, 23.6 and 47 in, simply cut to size onsite

ZU-V-16-300
ZU-V-16-600
ZU-V-16-1200

ABS collar extension (for Ø1.6 in posts)

Sealant shinking tube for an ABS collar, extends the seal above the water-bearing bed, e.g. on inverted roofs

- Standard length 11.8, 23.6 and 47 in, simply cut to size onsite

ZU-V-42-300
ZU-V-42-600
ZU-V-42-1200

Accessories — Installation accessories

ABS special adhesive

2-component adhesive for installing devices with an anchor rod and integrated dowels in concrete and masonry. Incl. 2 mixing nozzles. 11.1 oz

EQ-1000

Cartridge applicator gun for ABS adhesive

Rubust, durable cartridge applicator gun for ABS special adhesive. Cartridge is easy to insert and simple to use.

EQ-1003

Cleaning brush

Cleaning brush with wire bristles for cleaning out bore holes.

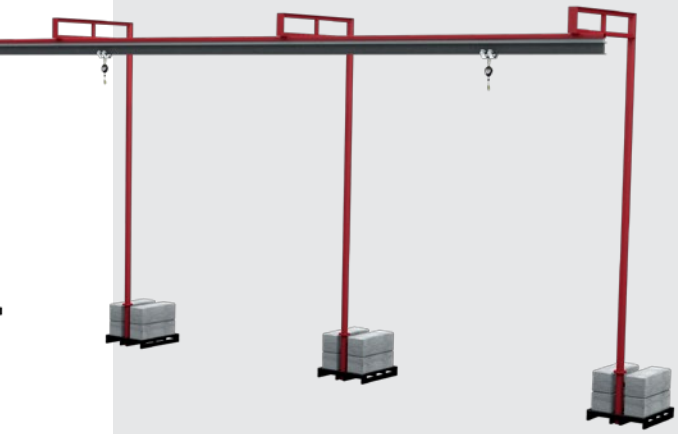
ZU-1001

ABS air pump

Manually operated air pump for cleaning out bore holes, with hose nozzle.

ZU-1002

ABS Custom Solutions



ABS Custom Solutions - Example 1

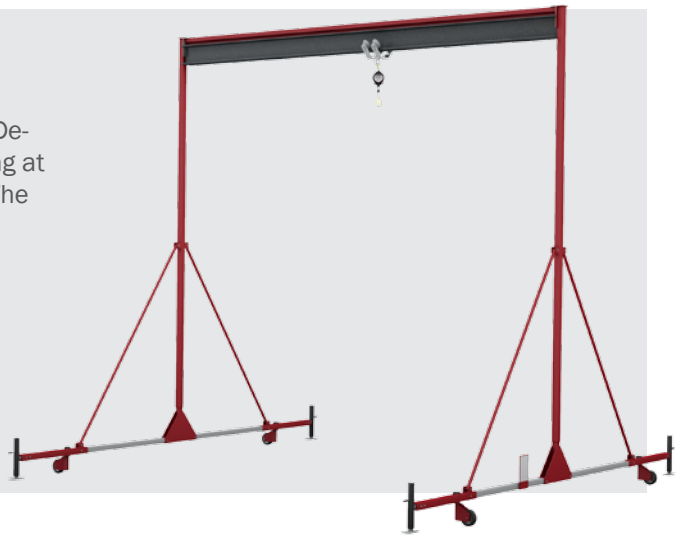
Universal fall protection system specially designed for working at heights. This system is extremely flexible and can be repositioned as required. Make sure that the desired position offers enough space for the outrigger.

- Custom size for your special application
- Custom coloration available
- The system features heavy-duty bases

ABS Custom Solution - Example 3

This custom frame system offers a mobile anchorage solution. Designed to increase your maneuverability and safety when working at height, this is the perfect system for e.g. vehicle maintenance. The system can also be easily relocated as you move along.

- Custom size for your special application
- Custom coloration available
- The system features heavy-duty bases



Unique solutions for unique situations

ABS Custom Solutions are tailored to the individual requirements of your specific application - offering ultimate safety.

- Paint finish red
- Other colors available upon request
- Extreme lightweight – easy to relocate by just a handful of people
- Weather-proof design

Please note that the systems illustrated on on these pages only represent a small selection of our wide range of Custom Solutions available. ABS Custom Solutions are tailored and produced according to you wishes and needs, the products are therefore not avaialable “off-the-shelf”. Examples for optional features available:

ABS Custom Solutions - Example 2

This counterweighted outrigger system provides a secure overhead anchorage solution for several individuals. The system is weighted down with concrete - or similar - weights which allows it to be positioned right where you are working.

- Custom size for your special application
- Custom coloration available
- The system is available with or without counterweights. as required

ABS Custom Solutions - Example 4

This overhead rail system can be rolled to any worklpace where otherwise no fall protection would be available. These systems are specially designed for specific workplaces/ machinery. Available as a permanent/ temporary system.

- Custom size for your special application
- Custom coloration available
- The system is available with or without counterweights. as required

Not only do we plan and manufacture individually-designed systems, ABS Safety can also install your system, train your personnel and handle your annual inspections. This enhances your safety levels and simplifies system usage. Tell us about your specific problem and we will show you the benefits of partnering with ABS Safety to design your perfect individual fall protection solution.

[ABS]
The systematic approach

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